

2
All B(A) Temp Sensors failed?

No

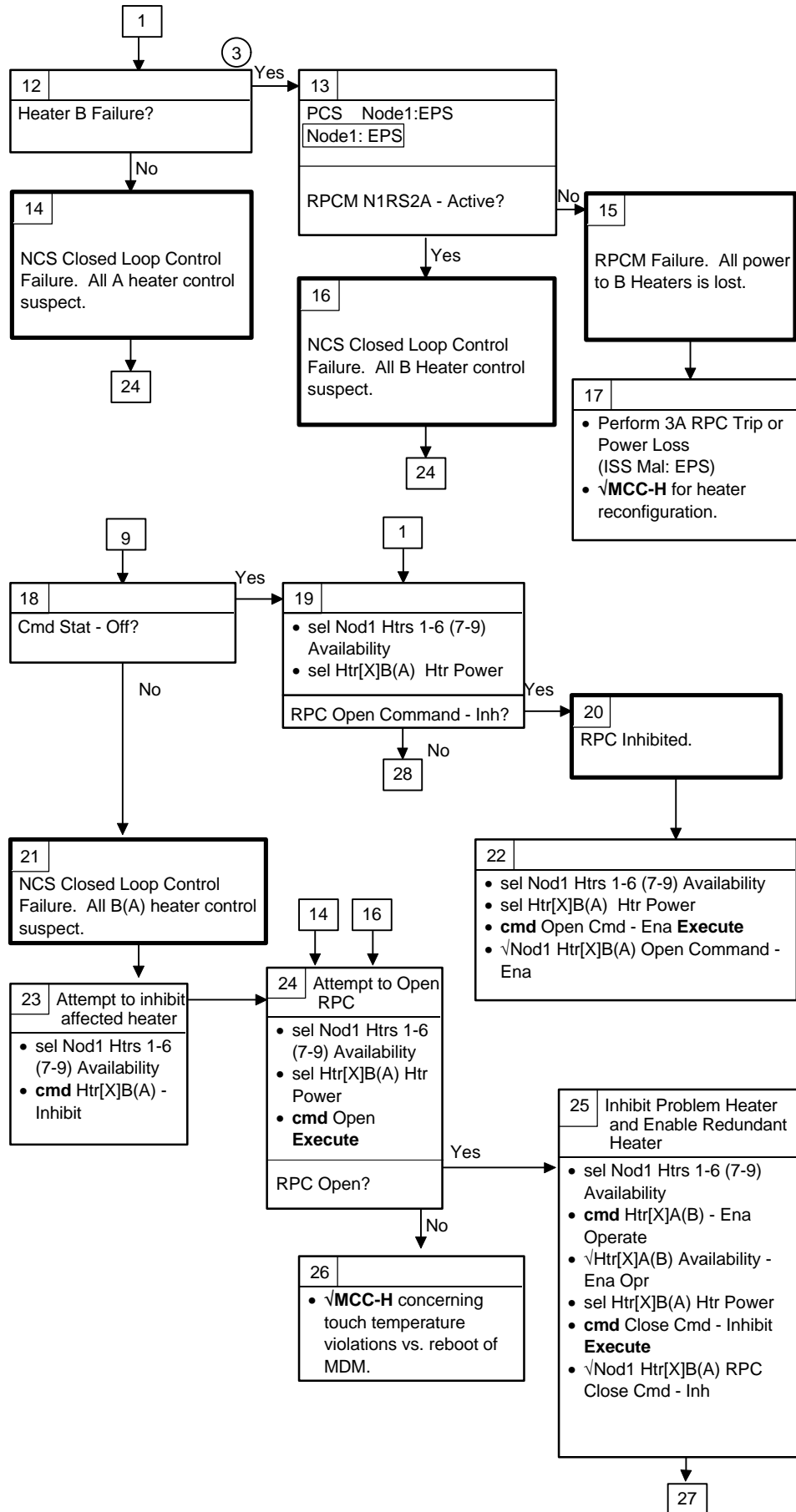
83

3
Possible loss of
MDM Card N1-2
A03 (N1-1 A03).

4

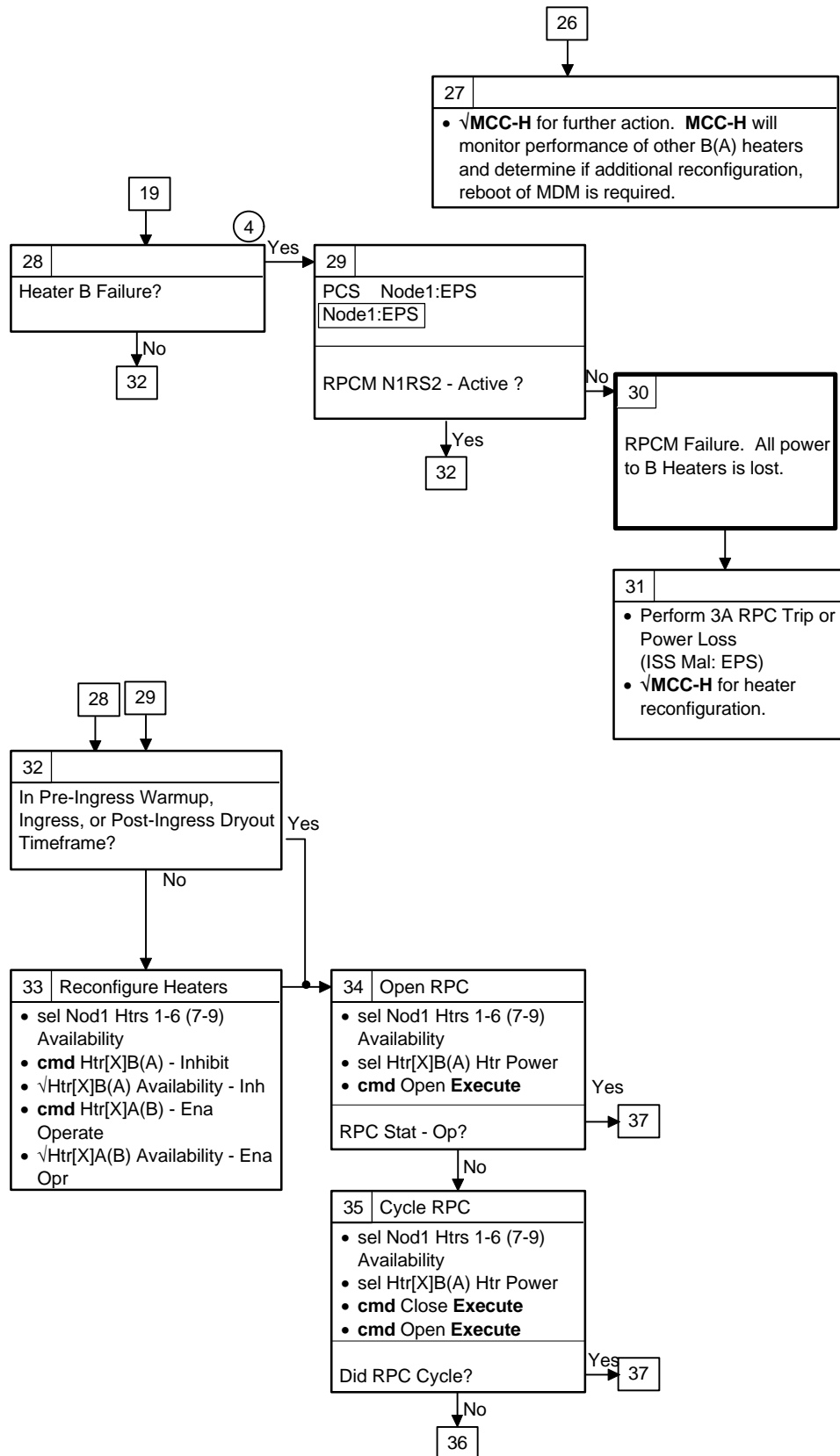
 • Perform MDM IO Card
 Failure (ISS Mal: C&DH)
 • √MCC-H for heater
 reconfiguration

3A NODE 1 SHELL HEATER FAILURE



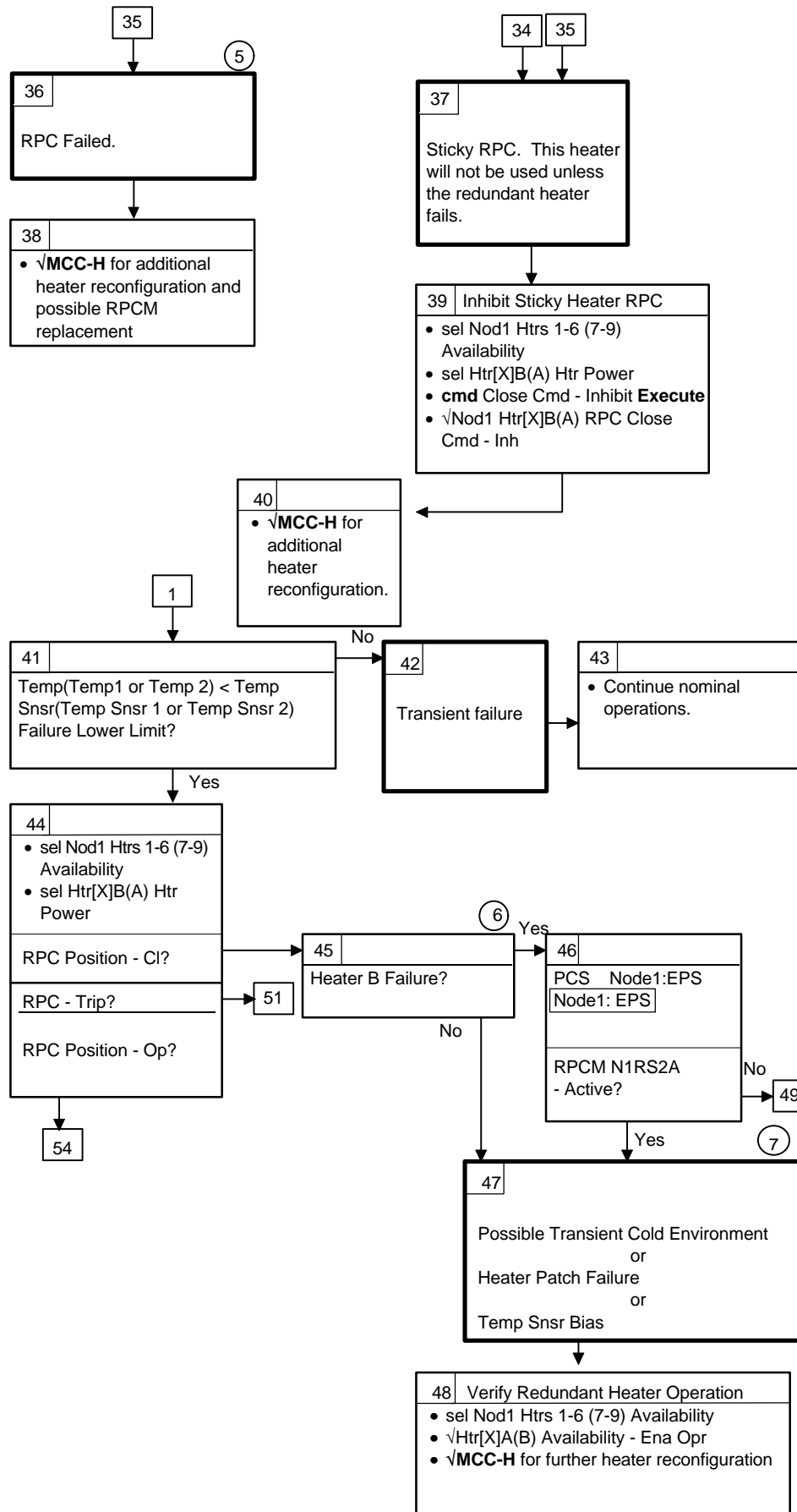
3 The A Heaters are connected to the same RPCM as MDM N1-1. The MDM Failure malfunction will be worked in that case. The B Heaters are not connected to the same RPCM as MDM N1-2, therefore it is possible that the heater configuration problem could be detected before the RPCM failure.

3A NODE 1 SHELL HEATER FAILURE



④ The A heaters are connected to the same RPCM as MDM N1-1. The MDM failure malfunction will be worked in that case. The B heaters are not connected to the same RPCM as MDM N1-2, therefore it is possible that the heater configuration problem could be detected before the RPCM failure.

3A NODE 1 SHELL HEATER FAILURE

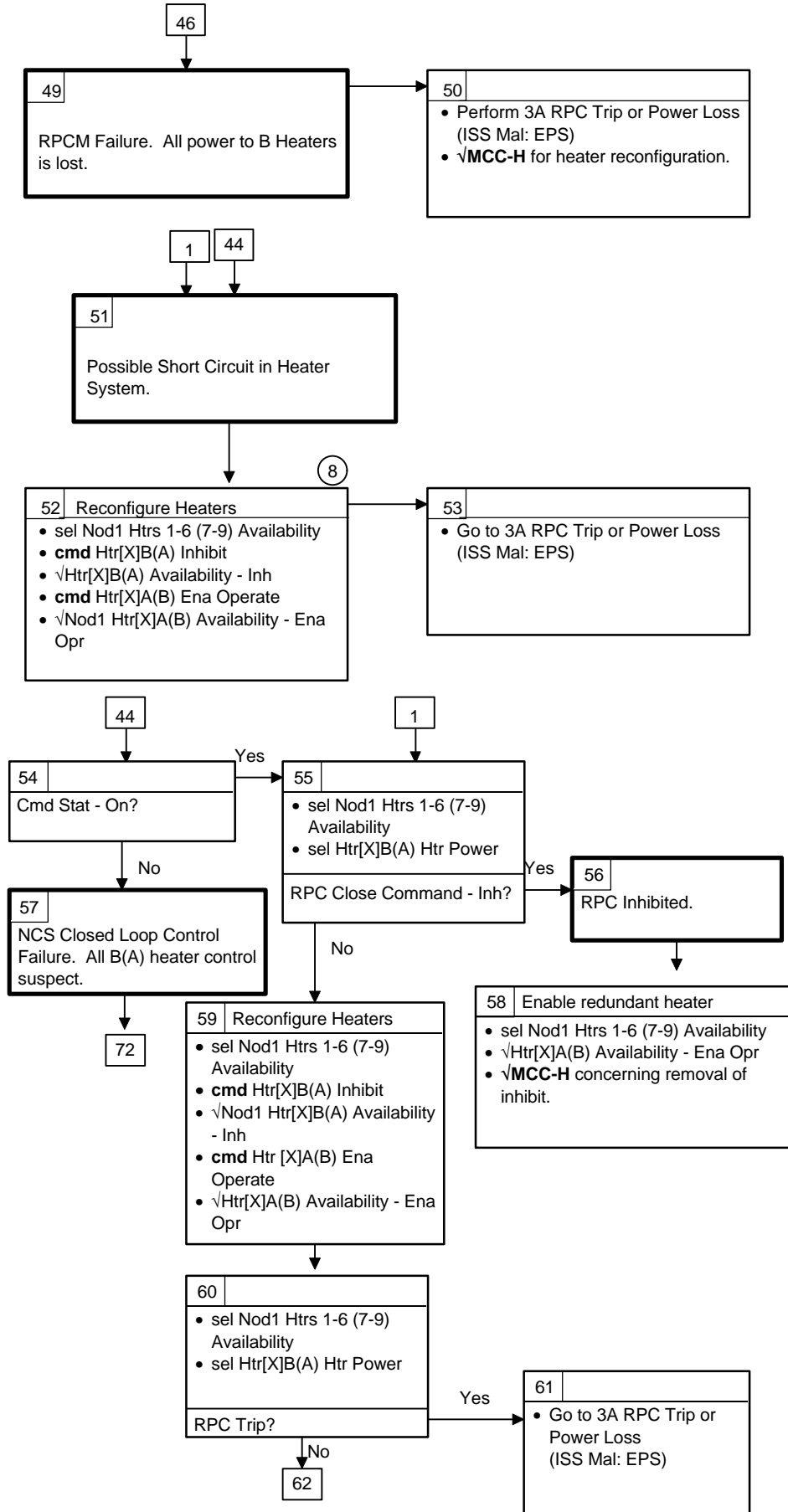


5 **MCC-H** will evaluate the possibility of touch temperature violations and the consequences of leaving the heater on.

6 The A heaters are connected to the same RPCM as MDM N1-1. The MDM failure malfunction will be worked in that case. The B heaters are not connected to the same RPCM as MDM N1-2, therefore it is possible that the heater configuration problem could be detected before the RPCM failure.

7 A transient cold environment could require both B and A heaters to keep temperatures within limits. A heater pad degonding failure or open circuit failure could also be the culprit in this case.

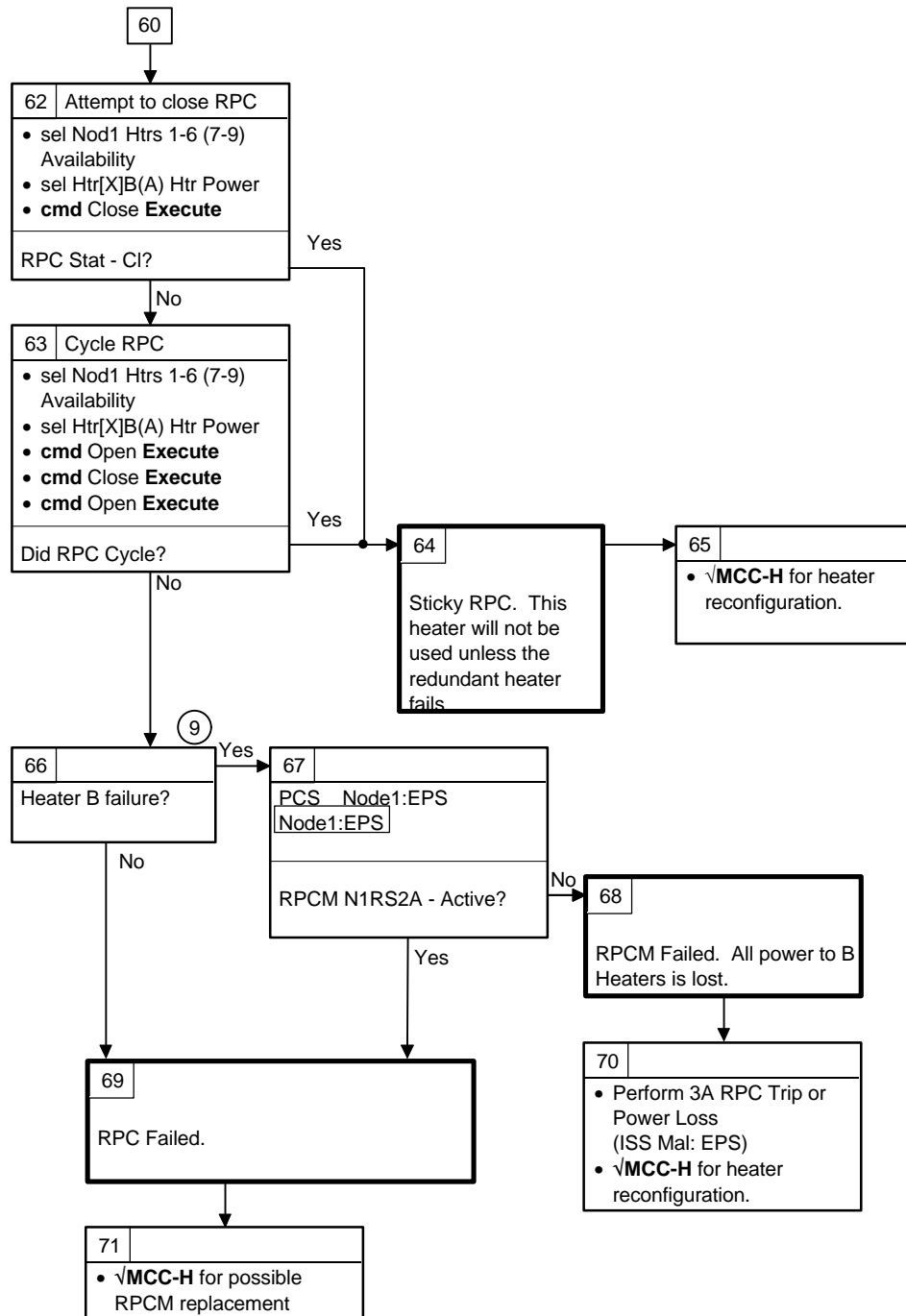
3A NODE 1 SHELL HEATER FAILURE



8

Since the RPC has tripped once, it will not be used again unless necessary.

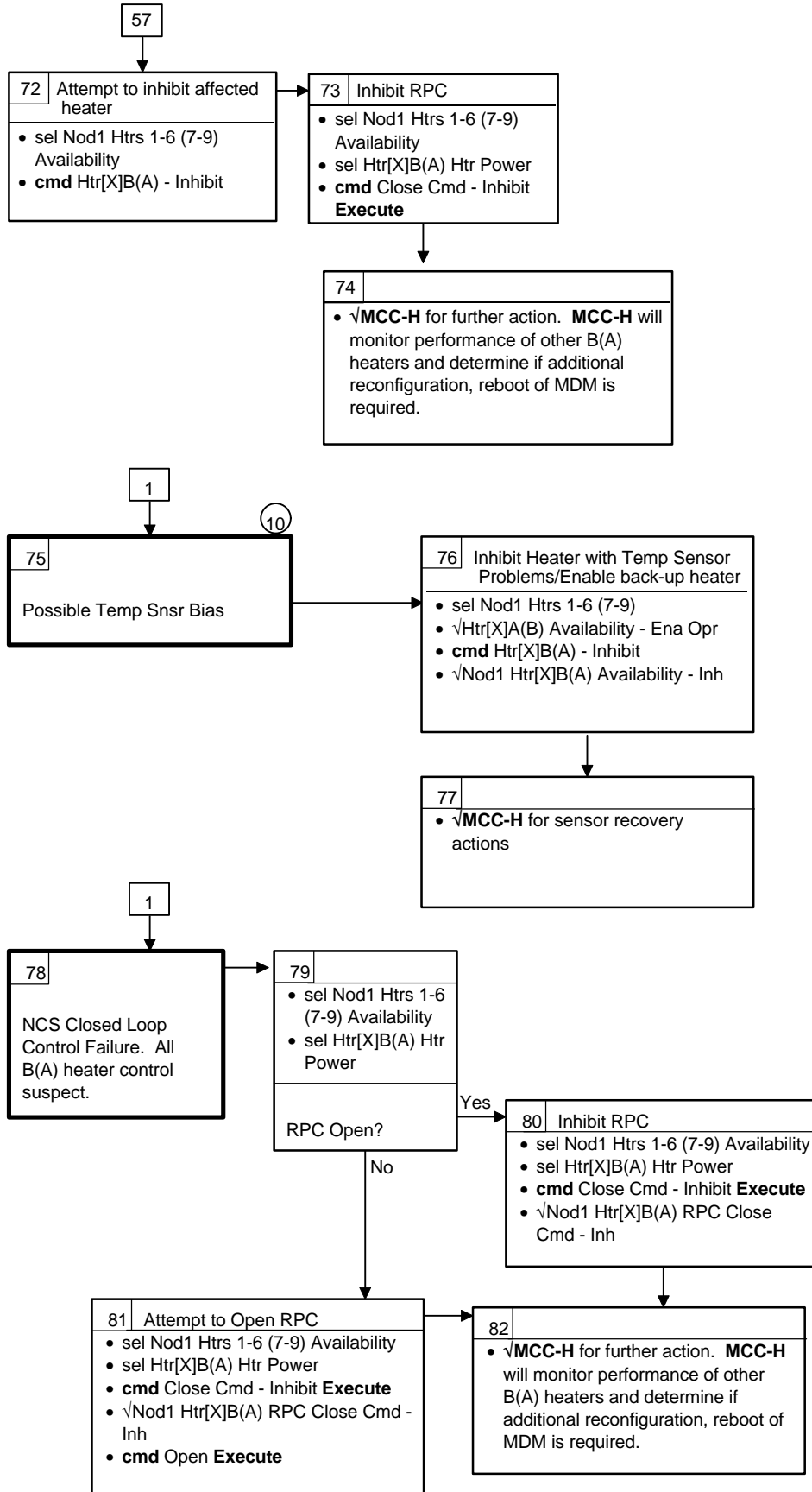
3A NODE 1 SHELL HEATER FAILURE



9

The A heaters are connected to the same RPCM as MDM N1-1. The MDM failure malfunction will be worked in that case. The B heaters are not connected to the same RPCM as MDM N1-2, therefore it is possible that the heater configuration problem could be detected before the RPCM failure.

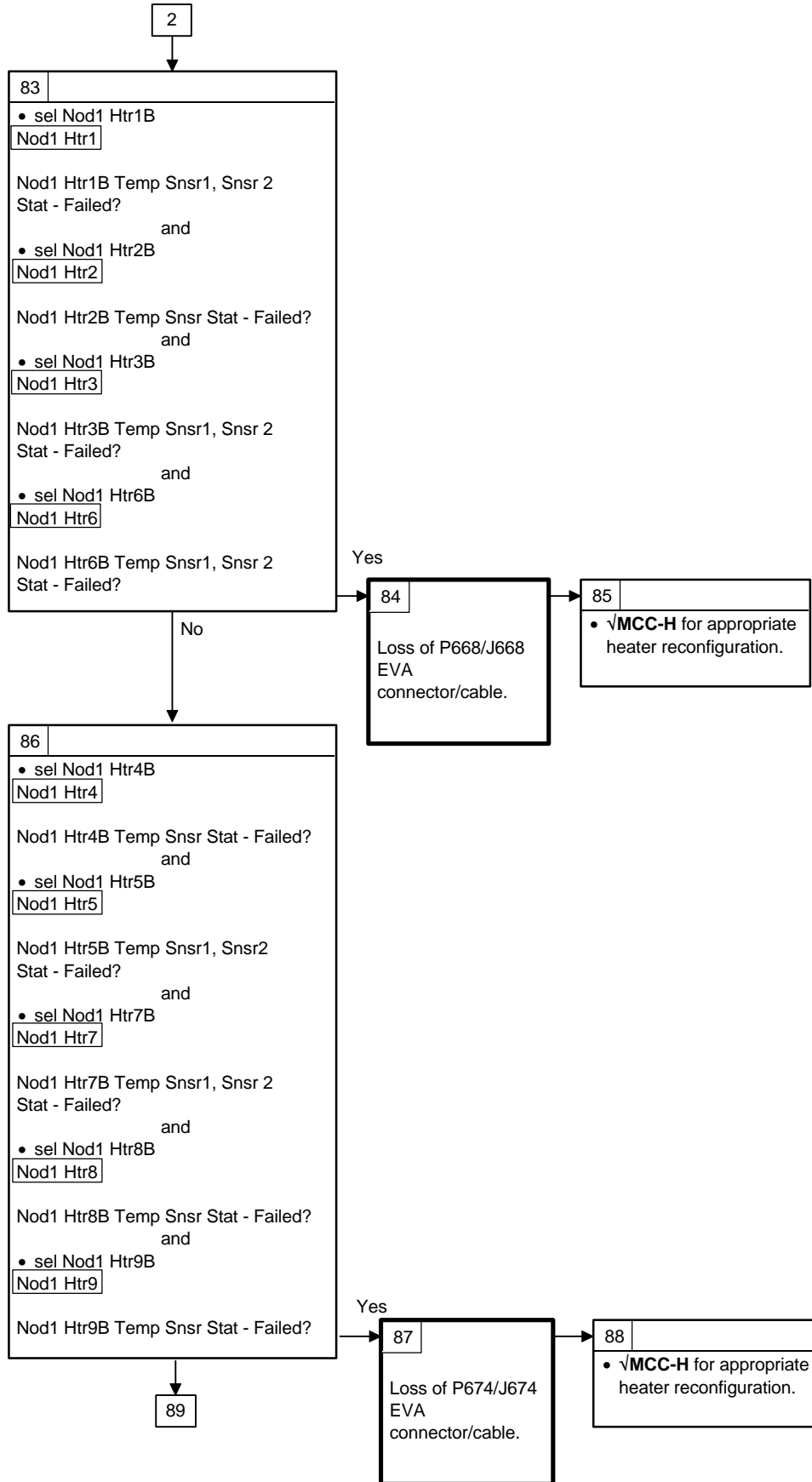
3A NODE 1 SHELL HEATER FAILURE



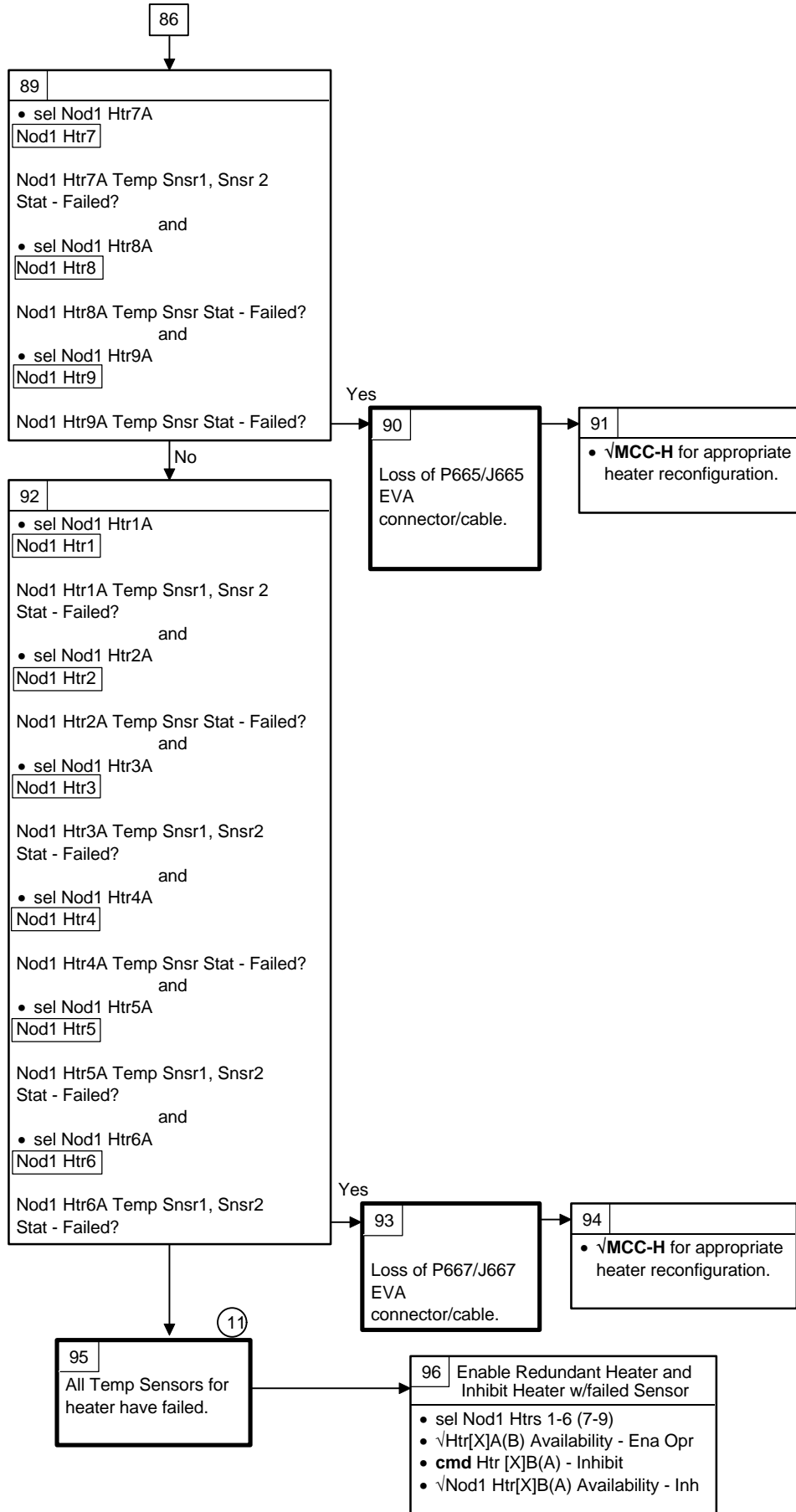
⑩

Temperature of one sensor is less than its lower setpoint, temperature of the redundant sensor is greater than its upper setpoint. Software will command the heater off (default state).

3A NODE 1 SHELL HEATER FAILURE



3A NODE 1 SHELL HEATER FAILURE



(11)

Temp sensor(s) have failed range check. Temp reading is either higher than +400°C or lower than -350°C. Software will command heater off (default state).